Airmen's design helps train future pilots

Public Affairs By 1st Lt. Jennifer Andrews

airsickness. combat spatial disorientation and new tools Tuesday to help student pilots Aerospace Physiology received two

superintendent. overhauled and updated," said Senior our 1960's Barany chair needed to be Operation Master Sgt. Timothy Kepsel, 479th "Staff Sgt. Michael Mazza and I felt Squadron

Barany chair had to be spun by hand by day for approximately 10 minutes. On the days in a row, three consecutive spins each managing airsickness. The program considered a useful tool to assist in demonstrating spatial disorientation is individuals airsick in addition to one of the instructors. revolutions per minute. Moody's 1960 last day, students will be spun up to 60 involves having to spin in the chair three The Barany chair's ability to make

the acquisition of the motorized chairs, we Medical Research Laboratory in Moody's chairs remain at a constant speech. Speech and who which a description of the constant speech and the constant speech speech and the constant speech and the constant speech and the co individuals at the Naval Aerospace physiology field and were pointed to two talked to others in the aerospace "Once we decided to go forward on

Support Squadron. formerly from the 479th Operations

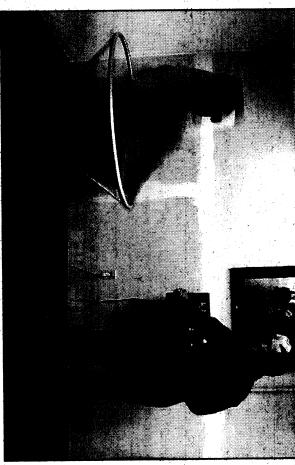
at NAMRL, who worked and constructed a Navy chair, then went to inspect it for with Mr. Rick Wartman and Mr. Tom Allen Sergeants Mazza and Kepsel spoke

chair would allow our instructors to focus student was using the tools we gave them on more important things, such as how the between instructors," said Sergeant motorized chair would ensure continuity to combat airsickness and found a "We found that having a motorized

returned to Moody, they began working on basic design and requirements for the new After Sergeants Kepsel and Mazza

chairs. "They had unique applications and who did the mechanical designs for the Rick Wartman, the mechanical engineer processes that we applied to this chair." "These are custom built chairs," said

depending on the position of the student, chairs where the speed slows or increases at a constant rate per minute. Unlike other closed-loop system which keeps the speed One of the unique specifications is the



(Photo by Staff Sgt. Manuel Martinez)

demonstration of the Barany Chair's capabilties. Both are aerospace physiology instructors assigned to the 479th Operations Support Squadron. Senior Master Sgt. Timothy Kepsel (right) gives Staff Sgt. Mary Hefty a first hand

speed controlled by a separate person and not the student. Another requirement is having the

Force wanted a separate person to control "The student controls the speed, but the Air Desensitization chair," said Mr. Wartman. Navy called the Self-Paced Airsickness "We built something similar for the

> NAMRL didn't go unappreciated. The hard work conducted by the

Moody to provide better, more efficient craftsmanship the members of the Naval is outstanding," said Sergeant Kepsel Aerospace Medical Research Laboratory "These new chairs increased our ability at "The dedication, engineering and

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